Serial No. 10/038,984 Group No. 1635 Confirmation No. 9705

Best Available Copy



1) Publication number:

0 306 347 A3

(12)

EUROPEAN PATENT APPLICATION

21) Application number: 88308187.9

(5) Int. Cl.5: A61K 31/70

2 Date of filing: 05.09.88

- Priority: 04.09.87 US 9352307.07.88 US 22076529.08.88 US 237019
- 4 Date of publication of application: 08.03.89 Bulletin 89/10
- Designated Contracting States:
 AT BE CH DE ES FR GB GR IT LI LU NL SE
- Date of deferred publication of the search report: 03.10.90 Builetin 90/40
- Applicant: HEM RESEARCH, INC. 12280 Wilkins Avenue P.O. Box 2245 Rockville, MD 20852(US)
- inventor: Carter, William A.
 1, Jaine Lane
 Birchrunville Pennsylvania 19421(US)
- Representative: Hallybone, Huw George et al CARPMAELS AND RANSFORD 43 Bloomsbury Square London WC1A 2RA(GB)
- Diagnosis and treatment of double-stranded RNA deficiency states.
- The use of a double-stranded RNA (dsRNA) for the manufacture of medicament for the treatment of a dsRNA deficient disease state other than an HIV infection or a cancer. Specific such disease states include chronic fatigue syndrome and hepatitus infections.

EP 0 306 347 A3

Best Available Copy



EPO PORM 1503 03.12 (P0401)

EUROPEAN SEARCH REPORT

Application Number

EP 88 30 8187

				EP 88 30 81		
	DOCUMENTS CONSIDERED	TO BE RELEVAN	T			
Category	Citation of document with Indication, w	rbere appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL 4)		
E	EP-A-0 299 745 (HEM RESE/ * Column 5, lines 12-21 *	ARCH, INC.)	1-7	A 61 K 31/70		
D,E	EP-A-0 285 263 (HEM RESEA * As a whole *	ARCH, INC.)	1-7			
Ε	EP-A-0 308 066 (HEM RESE) * As a whole, especially periods and the second seco		1-7			
X, D	THE LANCET, 6th June 1987 pages 1286-1292; W.A. CAR "Clinical, immunological, virological effects of ammismatched double-stranded patients with AIDS or AID complex" * The whole article *	FER et al.: and oligen, a i RNA, in	1-7			
D,X	EP-A-0 213 921 (HEM RESE) * The whole document *	ARCH, INC.)		TECHNICAL FIELDS SEARCHED (Int. CL4)		
P,X	PROCEEDINGS OF THE ANNUAL THE AMERICAN SOCIETY OF CI ONCOLOGY, New orleans, Lou 22nd-24th May 1988, vol. 7 page 2, abstract no. A6; I et al.: "Clinical improver immunological/virological ampligen therapy in ARC/prepatients" * Abstract *	LINICAL Isiana, March 1988, C.R. STRAYER Ment and effects of	1,3	A 61 K C 07 H C 12 Q		
77117	The present search report has been drawn	Dute of completion of the search	FOR	Exampler		
X : par Y : par	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another unment of the same category	T: theory or princip E: earlier patent do after the filing d: D: document cited t L: document cited t	ie underlying the cument, but publi ate n the application	ished on, or		
document of the same category A: technological background O: non-written disclosure P: intermediate document		& : member of the si	& : member of the same patent family, corresponding			

Best Available Copy



EUROPEAN SEARCH REPORT

Page 2

Application Number

EP 88 30 8187

· .	DOCUMENTS CONS	IDERED TO BE RELEVA	NT		
Category	Citation of document with of relevant p	indication, where appropriate,		levant claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	May 1987, vol. 6, 1 abstract no. A8; W.	TY OF CLINICAL Georgia, 17th-19th March 1987, page 2, A. CARTER et al.: ent of patients with dysfunction on	1,3		-
X	Raven Press, New Yo	1985, pages 699-675, ork, US; I. BRODSKY studies with ampligen	1,3	3 .	·
D,X	AIDS RESEARCH, vol. pages 127-131, Mary J.M. WU et al.: "Dithe determiation of interferon-induced decreased 2',5'-olidependent binding paids patient lympho" The whole article	Ann Liebert Inc.; lagnostic value of f an enzyme activity: lgoadenylate protein activity in pcytes"	1-7		TECHNICAL FIELDS SEARCHED (Int. CL4)
р, ү	NUCLEIC ACIDS RESEATION 1981, pages 1571-15 Londen, GB; D.H. WF "Ribosomal RNA clear activation and 2-54 interferon-treated * The whole article	avage, nuclease A (ppp(A2'p)nA) in cells"	1-7		•
1	The present search report has l	been drawn up for all claims			
		Date of completion of the search 11-07-1990		FOER	STER W.K.
X : part Y : part doc: A : tech O : non	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with an intent of the same category inological background written disclosure rmediate document	E : earlier patent after the filin	document, g date ed in the a ed for other	but publication reasons	shed on, or

Best Available Copy

European Patent Office

EUROPEAN SEARCH REPORT

Page 3

Application Number

EP 88 30 8187

	DOCUMENTS CONS	IDERED TO BE RELEV	ANT	
Category	Citation of document with of relevant p	indication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
D,Y	CELL, vol. 43, 1985 J.N. ZULLO et al.: growth factor and oribonucleic acids of the same genes articles.	"Platelet-derived double-stranded stimulate expression in 3T3 cells"	1-7	
D,Y	EUROPEAN J. BIOCHEN pages 165-174; P.J. "Activation of the in interferon-treat virus-infected cell novel inhibitors of ppp(A2'p)nA-depende * The whole article	CAYLEY et al.: ppp(A2¹p)nA system ed, Herpes simplex s and evidence for the ent RNase"	1-7	
A	ARCH. INTERN. MED., 1970, pages 109-124 "Double-stranded RM prevention of viral * The whole documen	; M.R. HILLEMAN: IAs (poly I:C) in the infections"	1-7	TECHNICAL FIELDS SEARCHED (lat. Cl.4)
D,A	February 1987, page BENEDETTI et al.: " (2'-5')oligoadenyla activity by product results in lack of interferon from vir	OC. NATL. ACAD. SCI. USA, vol. 84, oruary 1987, pages 658-662; A. DE NEDETTI et al.: "Loss of '-5')oligoadenylate synthetase tivity by production of antisense RNA sults in lack of protection by terferon from viral infections" The whole document *		
				•
	The present search report has b	een drawn up for all claims		
THE	Place of search HAGUE	Data of completion of the search 11-07-1990		STER W.K.
X : part Y : part doc: A : tech O : non	CATEGORY OF CITED DOCUME ilcularly relevant if taken alone ticularly relevant if combined with an unent of the same category inological background writtes disclosure remediate document	NTS T: theory or pr E: earlier pate after the fill other D: document c L: document c	inciple underlying the nt document, but public	invention shed on, or

EPO FORM 1500 (3.12 (PO401)